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Relevance scale

1 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems

Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Managemei data SIGMOD '02**

Publisher: ACM Press

Full text available: 📄 pdf(1.44 MB)   Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybric system, images, videos, engineering drawings, etc. are stored as files on a file server while metι referencing/indexing such files is created and stored in a relational database to take advantage (efficient search. In this paper we describe solutions for two potentially problematic aspects of su data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

2 The LHAM log-structured history data access method

Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Voι Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(494.76 KB)   Additional Information: full citation, abstract, index terms

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying acce: method must support different forms of "time-travel" queries, the migration of old record versioι onto inexpensive archive media, and high insertion and update rates. This paper presents an acc method for transaction-time temporal data, called the log-structured history data access methoc

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal datab

3 Personal information management: To have and to hold: exploring the personal archive

Joseph 'Jofish' Kaye, Janet Vertesi, Shari Avery, Allan Dafoe, Shay David, Lisa Onaga, Ivan Rosero, Trevor Pinch

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing system '06**

Publisher: ACM Press

Full text available: pdf(761.50 KB)   Additional Information: full citation, abstract, references, index terms

The personal archive is not only about efficient storage and retrieval of information. This paper describes a study of forty-eight academics and the techniques and tools they use to manage the digital and material archiving of papers, emails, documents, internet bookmarks, correspondenc other artifacts. We present two sets of results: we first discuss rationales behind subjects' archiv which go beyond information retrieval to include creating a legacy, sharing resources, confrontin

Keywords: archiving, bookmarks, email, ethnography, filing, identity

4 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy

Landon P. Cox, Christopher D. Murray, Brian D. Noble

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references

Backup is cumbersome and expensive. Individual users almost never back up their data, and ba a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a sigr amount of data. It is easy for common installations to find suitable peers, and peers with high ov

5 Principles of transaction-oriented database recovery

Theo Haerder, Andreas Reuter

December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(2.48 MB)   Additional Information: full citation, references, citings, index terms, review

6 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollba using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB)   Additional Information: full citation, abstract, references, citings, index term: review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management sy but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extende Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, i the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

7 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(4.23 MB)   Additional Information: full citation, references, citings, index terms, review

8 Data base directions: the next steps

John L. Berg
November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2
Publisher: ACM Press
Full text available: .pdf(9.95 MB)   Additional Information: full citation, abstract

> What information about data base technology does a manager need to make prudent decisions a
> using this new technology? To provide this information the National Bureau of Standards and the
> Association for Computing Machinery established a workshop of approximately 80 experts in five
> subject areas. The five subject areas were auditing, evolving technology, government regulation
> standards, and user experience. Each area prepared a report contained in these proceedings. Th
> proceedings p ...
>
> **Keywords**: DBMS, auditing, cost/benefit analysis, data base, data base management, governm·
> regulation, management objectives, privacy, security, standards, technology assessment, user
> experience

9 Disaster recovery techniques for database systems

Manhoi Choy, Hong Va Leong, Man Hon Wong
November 2000 **Communications of the ACM**
Publisher: ACM Press
Full text available: .pdf(412.04 KB)   Additional Information: full citation, references, index terms

10 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1
Publisher: ACM Press
Full text available: .pdf(2.54 MB)   Additional Information: full citation

11 A database cache for high performance and fast restart in database systems

Klaus Elhardt, Rudolf Bayer
December 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 4
Publisher: ACM Press
Full text available: .pdf(1.72 MB)   Additional Information: full citation, abstract, references, citings, index term:
                                                                 review

> Performance in database systems is strongly influenced by buffer management and transaction
> recovery methods. This paper presents the principles of the database cache, which replaces the
> traditional buffer. In comparison to buffer management, cache management is more carefully
> coordinated with transaction management, and integrates transaction recovery. High throughpu·
> small- and medium-sized transactions is achieved by fast commit processing and low database t
> Very fas ...

12 Recovery Techniques for Database Systems

Joost S. M. Verhofstad
June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2
Publisher: ACM Press
Full text available: .pdf(2.32 MB)   Additional Information: full citation, references, citings, index terms

13 A quantitative analysis of cache policies for scalable network file systems

Michael D. Dahlin, Clifford J. Mather, Randolph Y. Wang, Thomas E. Anderson, David A. Patterson
May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 A SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.42 MB)   Additional Information: full citation, abstract, references, citings, index term:

Current network file system protocols rely heavily on a central server to coordinate file activity a client workstations. This central server can become a bottleneck that limits scalability for environ with large numbers of clients. In central server systems such as NFS and AFS, all client writes, c misses, and coherence messages are handled by the server. To keep up with this workload, exp server machines are needed, configured with high-performance CPUs, memory systems, ...

14 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index term: review

Database management systems will continue to manage large data volumes. Thus, efficient algc for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate sets of complex objects as efficiently as today's database systems manipulate simple records, qu processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible databa systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

15 ReVive: cost-effective architectural support for rollback recovery in shared-memory multiprocessors

Milos Prvulovic, Zheng Zhang, Josep Torrellas
May 2002 **ACM SIGARCH Computer Architecture News , Proceedings of the 29th annual international symposium on Computer architecture ISCA '02 , Proceedings of t 29th annual international symposium on Computer architecture ISCA '02**, Volun Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(1.38 MB) Publisher Site   Additional Information: full citation, abstract, references, citings, index term:

This paper presents ReVive, a novel general-purpose rollback recovery mechanism for shared-m multiprocessors. ReVive carefully balances the conflicting requirements of availability, performar and hardware cost. ReVive performs checkpointing, logging, and distributed parity protection, al memory-based. It enables recovery from a wide class of errors, including the permanent loss of entire node. To maintain high performance, ReVive includes specialized hardware that performs frequent o ...

Keywords: fault tolerance, shared-memory multiprocessors, rollback recovery, recovery, BER, logging, parity, checkpointing, availability

16 RPC-V: Toward Fault-Tolerant RPC for Internet Connected Desktop Grids with Volatile No

Samir Djilali, Thomas Herault, Oleg Lodygensky, Tangui Morlier, Gilles Fedak, Franck Cappello

November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available: pdf(230.75 KB)   Additional Information: full citation, abstract

RPC is one of the programming models envisioned for the Grid. In Internet connected Large Sca Grids such as Desktop Grids, nodes and networks failures are not rare events. This paper provid several contributions, examining the feasibility and limits of fault-tolerant RPC on these platform First, we characterize these Grids from their fundamental features and demonstrate that their applications scope should be safely restricted to stateless services. Second, we present a new fa tolerant ...

17 Recovery management in QuickSilver

Rober Haskin, Yoni Malachi, Gregory Chan

February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(2.21 MB)   Additional Information: full citation, abstract, references, citings, index term: review

This paper describes QuickSilver, developed at the IBM Almaden Research Center, which uses at transactions as a unified failure recovery mechanism for a client-server structured distributed sy Transactions allow failure atomicity for related activities at a single server or at a number of independent servers. Rather than bundling transaction management into a dedicated language c recoverable object manager, Quicksilver exposes the basic commit protocol and log rec ...

18 Experience Using Multiprocessor Systems—A Status Report

Anita K. Jones, Peter Schwarz

June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2

Publisher: ACM Press

Full text available: pdf(4.48 MB)   Additional Information: full citation, references, citings, index terms

19 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(6.32 MB)   Additional Information: full citation, abstract, references, citings, index term: review

In the last three decades a large number of compiler transformations for optimizing programs h; been implemented. Most optimizations for uniprocessors reduce the number of instructions exec by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking properties o ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelisr superscalar processors, vectorization

20 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(1.65 MB)   Additional Information: full citation, citings, index terms

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L2	135	(Wai near2 Lam).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:28
L3	9	(Ronald near2 Niles).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:29
L4	0	(Xiaowel near2 Li).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:30
L5	9	(Xiaowei near2 Li).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:31
L6	0	1 and 2 and 3 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:38
L7	24454821	1 or 2 or 3 or 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:32
L8	267096	(back$6 near "up") or backup$4 or archiv$7 or backstor$4 or (reserv$5 adj stor$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:33
L9	9002	data adj synchroniz$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:34

L10	16139	data adj synchroniz$8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:34
L11	1	(((first and second) adj2 digest$4) near3 (random adj value)) same (encod$4 or decod$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:40
L12	201564	(duplicated or duplicate or duplication or duplicating or duplicatted)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:37
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L14	20333	(primary or secondary) near2 storage	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:38
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L17	239	13 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:39
L18	109	17 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:39
L19	2	18 and 10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:39

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L20	921973	(encod$4 or decod$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:40
L21	62	18 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:40
L22	1	(((first and second) adj2 digest$4) near3 (random adj value))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:40
L23	3820	(random adj value)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:40
L24	3	21 and 23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:41
L25	1	22 and 24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:41
L26	8	1 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:41
L27	2	1 and 24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/07/18 15:41

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